

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.64	05/21/2019 05/21/2019	Alberto De Leon

LM Start		Rating **	A	Issue No.	2
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_RD2062_01_f_2013_2				
Comment Code					
Inspector Comment					
The O&M Manual is available at the LMA's office.					

No Photos

LM Start		Rating **	A	Issue No.	5
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_RD2062_01_s_2013_5				
Comment Code					
Inspector Comment					
Adequate flood fight supplies are available on-site.					

No Photos

LM Start		Rating **	A	Issue No.	8
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_RD2062_01_s_2013_8				
Comment Code					
Inspector Comment					
The LMA has a flood fight emergency response plan. LMA has attended DWR flood fight training class.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.64	05/21/2019 05/21/2019	Alberto De Leon

LM Start	0.00	Rating **	M	Issue No.	6
LM End	2.63	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.807505 °	37.787249 °
				-121.328103 °	-121.308947 °
DWR ID	DWR_RD2062_01_f_2018_6				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 2 : SP_2019_RD2062_309_6_20190313_00001.jpg



Typical view of levee slopes.

LM Start	0.00	Rating **	M	Issue No.	6 (cont)
LM End	2.63	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2019_RD2062_309_6_20190521_00011.jpg



Typical view of vegetation on waterside slope. (Spring 2019)

LM Start	0.81	Rating **	M	Issue No.	7
LM End	0.81	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.804623 °	37.804623 °
				-121.314943 °	-121.314943 °
DWR ID	DWR_RD2062_01_s_2019_7				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	3.96	05/21/2019 05/21/2019	Alberto De Leon

LM Start	0.00	Rating **	C	Issue No.	13
LM End	1.96	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.777817 °	37.796677 °
				-121.333052 °	-121.359268 °
DWR ID	DWR_RD2062_02_s_2018_13				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

LM Start	0.03	Rating **	M	Issue No.	11
LM End	3.93	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.778188 °	37.808790 °
				-121.333378 °	-121.390462 °
DWR ID	DWR_RD2062_02_s_2019_11				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Annual vegetation is scheduled to be mowed in the month of June.					

Photo 1 of 1 : SP_2019_RD2062_310_11_20190521_00037.jpg



Typical view of vegetation on waterside slope. (Spring 2019)

LM Start	0.03	Rating **	M	Issue No.	10
LM End	3.93	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.778189 °	37.808790 °
				-121.333377 °	-121.390462 °
DWR ID	DWR_RD2062_02_s_2019_10				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Annual vegetation is scheduled to be mowed in the month of June.					

Photo 1 of 1 : SP_2019_RD2062_310_10_20190521_00038.jpg



Typical view of vegetation on landside slope. (Spring 2019)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	3.96	05/21/2019 05/21/2019	Alberto De Leon

LM Start	1.37	Rating **	C	Issue No.	14
LM End	1.37	Issue Type +	Ma	Location *	CR
Category	Interior Drainage & Piping Systems			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.791772 °	37.791772 °
				-121.350415 °	-121.350415 °
DWR ID	DWR_RD2062_02_s_2018_14				
Comment Code					
Inspector Comment					
Owner installed pipe across levee crown.					

No Photos

LM Start	2.49	Rating **	U	Issue No.	22
LM End	2.49	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.801227 °	37.801227 °
				-121.367131 °	-121.367131 °
DWR ID	DWR_RD2062_02_s_2019_22				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : SP_2019_RD2062_310_22_20190521_00036.jpg



View of pruning pile on landside slope. (Spring 2019)

LM Start	3.14	Rating **	M	Issue No.	21
LM End	3.14	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.804538 °	37.804538 °
				-121.377946 °	-121.377946 °
DWR ID	DWR_RD2062_02_s_2019_21				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	3.96	05/21/2019 05/21/2019	Alberto De Leon

LM Start	3.30	Rating **	M	Issue No.	20
LM End	3.30	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Crown Surface / Depressions / Rutting		37.805013 °	37.805013 °	
			-121.380690 °	-121.380690 °	
DWR ID	DWR_RD2062_02_s _ 2019_20				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

LM Start	3.37	Rating **	M	Issue No.	19
LM End	3.37	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Crown Surface / Depressions / Rutting		37.805302 °	37.805302 °	
			-121.381964 °	-121.381964 °	
DWR ID	DWR_RD2062_02_s _ 2019_19				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

LM Start	3.48	Rating **	M	Issue No.	18
LM End	3.48	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Crown Surface / Depressions / Rutting		37.805692 °	37.805692 °	
			-121.383837 °	-121.383837 °	
DWR ID	DWR_RD2062_02_s _ 2019_18				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	3.96	05/21/2019 05/21/2019	Alberto De Leon

LM Start	3.64	Rating **	C	Issue No.	8
LM End	3.64	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.806347 °	37.806347 °
				-121.386692 °	-121.386692 °
DWR ID	DWR_RD2062_02_s_2014_8				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

No Photos

LM Start	3.74	Rating **	M	Issue No.	17
LM End	3.74	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.806798 °	37.806798 °
				-121.388427 °	-121.388427 °
DWR ID	DWR_RD2062_02_s _ 2019_17				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

LM Start	3.84	Rating **	M	Issue No.	16
LM End	3.84	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.807703 °	37.807703 °
				-121.389824 °	-121.389824 °
DWR ID	DWR_RD2062_02_s _ 2019_16				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	3.96	05/21/2019 05/21/2019	Alberto De Leon

LM Start	3.95	Rating **	C	Issue No.	12
LM End	3.95	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.809160 °	37.809160 °
				-121.390427 °	-121.390427 °
DWR ID	DWR_RD2062_02_s_2018_12				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Fallen tree on landward slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	05/21/2019 05/21/2019	Alberto De Leon

LM Start	-0.03	Rating **	M	Issue No.	1 (cont)	
LM End	0.07	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR Erosion Survey			37.809514 °		37.809514 °
				-121.390125 °		-121.390125 °
DWR ID	RD2062U03RM29.94					
Comment Code						
Inspector Comment						
09/13/2017: The erosion site has expanded significantly along the river bank.						
11/09/2016: No significant change observed.						
06/25/2015: The erosion is below a large oak tree. Vegetation is visible around the erosion site. [2017 Site ID:RD2062U03RM29.94]						

Photo 4 of 4 : SP_2019_RD2062_311_1_20190313_00004.jpg



Close view of the erosion.

LM Start	0.01	Rating **	M	Issue No.	23
LM End	4.62	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.809382 °	37.815697 °
				-121.390258 °	-121.334542 °
DWR ID	DWR_RD2062_03_s_2019_23				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Annual vegetation is scheduled to be mowed in June 2019.					

Photo 1 of 1 : SP_2019_RD2062_311_23_20190521_00057.jpg



Typical view of vegetation on landside slope. (Spring 2019)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	05/21/2019 05/21/2019	Alberto De Leon

LM Start	0.09	Rating **	U	Issue No.	2
LM End	0.11	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.809932 °	37.809932 °
				-121.388788 °	-121.388788 °
DWR ID	RD2062U03RM30.02				
Comment Code					
Inspector Comment					
09/13/2017: The erosion site has expanded significantly with the erosion length increased to approximately 90 ft from 40 ft. Signs of animal activities have been found at the site.					
07/25/2016: No significant change observed.					
06/25/2015: No significant change observed.					
07/02/2014: No significant change observed.					
08/13/2013: No significant change observed.					
08/07/2012: The site has been visited by boat survey. No significant change observed					
08/23/2011: Hard to view the erosion because of the dense vegetation and trees on site. The site is under the bush, close to the tree. [2017 Site ID:RD2062U03RM30.02]					

LM Start	0.09	Rating **	U	Issue No.	2 (cont)
LM End	0.11	Issue Type +	Ma	Location *	WS

Photo 1 of 4 : SP_2019_RD2062_311_2_20190313_00005.jpg



Front view of the site.

Photo 2 of 4 : SP_2019_RD2062_311_2_20190313_00006.jpg



Close view of the erosion. Note signs of animal activities at the site.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	05/21/2019 05/21/2019	Alberto De Leon

LM Start	0.09	Rating **	U	Issue No.	2 (cont)	
LM End	0.11	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR Erosion Survey			37.809932 °	37.809932 °	
				-121.388788 °	-121.388788 °	
DWR ID	RD2062U03RM30.02					
Comment Code						
Inspector Comment						
09/13/2017: The erosion site has expanded significantly with the erosion length increased to approximately 90 ft from 40 ft. Signs of animal activities have been found at the site.						
07/25/2016: No significant change observed.						
06/25/2015: No significant change observed.						
07/02/2014: No significant change observed.						
08/13/2013: No significant change observed.						
08/07/2012: The site has been visited by boat survey. No significant change observed						
08/23/2011: Hard to view the erosion because of the dense vegetation and trees on site. The site is under the bush, close to the tree. [2017 Site ID:RD2062U03RM30.02]						

Photo 3 of 4 : SP_2019_RD2062_311_2_20190313_00007.jpg



Close view of the erosion.

LM Start	0.09	Rating **	U	Issue No.	2 (cont)
LM End	0.11	Issue Type +	Ma	Location *	WS

Photo 4 of 4 : SP_2019_RD2062_311_2_20190313_00008.jpg



Close view of the erosion.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	05/21/2019 05/21/2019	Alberto De Leon

LM Start	0.17	Rating **	M	Issue No.	3
LM End	0.17	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.810268 °	37.810268 °
				-121.387495 °	-121.387495 °
DWR ID	DWR_RD2062_03_s_2018_3				
Comment Code					
Inspector Comment					
09/13/2017: No significant change observed.					
07/25/2016: No significant change observed.					
06/25/2015: No significant change observed.					
07/02/2014: No significant change observed.					
08/13/2013: No significant change observed.					
08/07/2012: The site has been visited by boat survey. No significant change observed					
08/23/2011: The protection at the levee toe has been washed away.					
[2017 Site ID:RD2062U03RM30.1]					

LM Start	0.17	Rating **	M	Issue No.	3 (cont)
LM End	0.17	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : SP_2019_RD2062_311_3_20190313_00009.jpg



Direct view of the site.

Photo 2 of 3 : SP_2019_RD2062_311_3_20190313_00010.jpg



Close view of the erosion.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	05/21/2019 05/21/2019	Alberto De Leon

LM Start	0.17	Rating **	M	Issue No.	3 (cont)	
LM End	0.17	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR Erosion Survey			37.810268 °		37.810268 °
				-121.387495 °		-121.387495 °
DWR ID	DWR_RD2062_03_s_2018_3					
Comment Code						
Inspector Comment						
09/13/2017: No significant change observed.						
07/25/2016: No significant change observed.						
06/25/2015: No significant change observed.						
07/02/2014: No significant change observed.						
08/13/2013: No significant change observed.						
08/07/2012: The site has been visited by boat survey. No significant change observed						
08/23/2011: The protection at the levee toe has been washed away.						
[2017 Site ID:RD2062U03RM30.1]						

Photo 3 of 3 : SP_2019_RD2062_311_3_20190313_00011.jpg



Close view of the erosion.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	05/21/2019 05/21/2019	Alberto De Leon

LM Start	0.22	Rating **	U	Issue No.	4
LM End	0.31	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.810609 °	37.810609 °
				-121.385879 °	-121.385879 °
DWR ID	RD2062U03RM30.19				

Comment Code

Inspector Comment

09/13/2017: The erosion has developed vertically. More vegetation at the site.
 07/25/2106: No significant change observed. More vegetation observed at the site.
 06/25/2015: No significant change observed.
 07/02/2014: No significant change observed.
 08/13/2013: A new pocket erosion at the upper levee slope has been found directly above a large tree. The erosion might have been caused by internal pipe leakage or surface runoff.
 08/07/2012: The site has been visited by boat survey. No significant change observed
 08/23/2011: No significant change observed on site. Dense vegetation is visible along the water line.
 09/07/2010: No significant change observed on site. Much of the upper slope was recently cleared of vegetation by spraying. 4- to 6-foot vertical scarp and pocket erosions are lined along a span of 475 feet. In some sections, the vertical scarp encroaches into the levee prism. There is a lack of berm along this reach, exposing the levee slope to high flow velocities during normal and flood events.
 08/06/2010: Recommended as local maintenance issue, per CLRO.
 03/09/2010: As discussed with Michael Moncrief of MBK Engineers, the site will be 'addressed' later this year.
 09/29/2009: No major change observed since last visit; pocket erosion and a vertical scarp forming; this site was combined with Site RM30.13 and 30.02 with a combined total erosion length of 475 feet; recommended as annual assessment and monitoring of the site, per CLRO CES Evaluation 2008 Report; previously rated "M".
 11/05/2008: Top of vertical scarp has rip rap that appears to be sliding; rodent holes; existing toe rip rap. [2017 Site ID:RD2062U03RM30.19]

Photo 1 of 4 : SP_2019_RD2062_311_4_20190313_00012.jpg



View of the pocket erosion.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	05/21/2019 05/21/2019	Alberto De Leon

LM Start	0.22	Rating **	U	Issue No.	4 (cont)	
LM End	0.31	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR Erosion Survey			37.810609 °	37.810609 °	
				-121.385879 °	-121.385879 °	
DWR ID	RD2062U03RM30.19					
Comment Code						
Inspector Comment						
09/13/2017: The erosion has developed vertically. More vegetaiaon at the site.						
07/25/2106: No significant change observed. More vegetation observed at the site.						
06/25/2015: No significant change observed.						
07/02/2014: No significant change observed.						
08/13/2013: A new pocket erosion at the upper levee slope has been found directly above a large tree. The erosion might have been caused by internal pipe leakage or surface runoff.						
08/07/2012: The site has been visited by boat survey. No significant change observed						
08/23/2011: No significant change observed on site. Dense vegetation is visible along the water line.						
09/07/2010: No significant change observed on site. Much of the upper slope was recently cleared of vegetation by spraying. 4- to 6-foot vertical scarp and pocket erosions are lined along a span of 475 feet. In some sections, the vertical scarp encroaches into the levee prism. There is a lack of berm along this reach, exposing the levee slope to high flow velocities during normal and flood events.						
08/06/2010: Recommended as local maintenance issue, per CLRO.						
03/09/2010: As discussed with Michael Moncrief of MBK Engineers, the site will be 'addressed' later this year.						
09/29/2009: No major change observed since last visit; pocket erosion and a vertical scarp forming; this site was combined with Site RM30.13 and 30.02 with a combined total erosion length of 475 feet; recommended as annual assessment and monitoring of the site, per CLRO CES Evaluation 2008 Report; previously rated "M".						
11/05/2008: Top of vertical scarp has rip rap that appears to be sliding; rodent holes; existing toe rip rap. [2017 Site ID:RD2062U03RM30.19]						

Photo 2 of 4 : SP_2019_RD2062_311_4_20190313_00013.jpg



Close view of the pocket erosion. Note the dense vegetation at the site.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	05/21/2019 05/21/2019	Alberto De Leon

LM Start	0.22	Rating **	U	Issue No.	4 (cont)
LM End	0.31	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.810609 °	37.810609 °
				-121.385879 °	-121.385879 °
DWR ID	RD2062U03RM30.19				

Comment Code

Inspector Comment

09/13/2017: The erosion has developed vertically. More vegetation at the site.
 07/25/2016: No significant change observed. More vegetation observed at the site.
 06/25/2015: No significant change observed.
 07/02/2014: No significant change observed.
 08/13/2013: A new pocket erosion at the upper levee slope has been found directly above a large tree. The erosion might have been caused by internal pipe leakage or surface runoff.
 08/07/2012: The site has been visited by boat survey. No significant change observed
 08/23/2011: No significant change observed on site. Dense vegetation is visible along the water line.
 09/07/2010: No significant change observed on site. Much of the upper slope was recently cleared of vegetation by spraying. 4- to 6-foot vertical scarp and pocket erosions are lined along a span of 475 feet. In some sections, the vertical scarp encroaches into the levee prism. There is a lack of berm along this reach, exposing the levee slope to high flow velocities during normal and flood events.
 08/06/2010: Recommended as local maintenance issue, per CLRO.
 03/09/2010: As discussed with Michael Moncrief of MBK Engineers, the site will be 'addressed' later this year.
 09/29/2009: No major change observed since last visit; pocket erosion and a vertical scarp forming; this site was combined with Site RM30.13 and 30.02 with a combined total erosion length of 475 feet; recommended as annual assessment and monitoring of the site, per CLRO CES Evaluation 2008 Report; previously rated "M".
 11/05/2008: Top of vertical scarp has rip rap that appears to be sliding; rodent holes; existing toe rip rap. [2017 Site ID:RD2062U03RM30.19]

Photo 3 of 4 : SP_2019_RD2062_311_4_20190313_00014.jpg



Front view of the site with dense vegetation.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	05/21/2019 05/21/2019	Alberto De Leon

LM Start	0.22	Rating **	U	Issue No.	4 (cont)	
LM End	0.31	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR Erosion Survey			37.810609 °		37.810609 °
				-121.385879 °		-121.385879 °
DWR ID	RD2062U03RM30.19					
Comment Code						
Inspector Comment						
09/13/2017: The erosion has developed vertically. More vegetaion at the site.						
07/25/2106: No significant change observed. More vegetation observed at the site.						
06/25/2015: No significant change observed.						
07/02/2014: No significant change observed.						
08/13/2013: A new pocket erosion at the upper levee slope has been found directly above a large tree. The erosion might have been caused by internal pipe leakage or surface runoff.						
08/07/2012: The site has been visited by boat survey. No significant change observed						
08/23/2011: No significant change observed on site. Dense vegetation is visible along the water line.						
09/07/2010: No significant change observed on site. Much of the upper slope was recently cleared of vegetation by spraying. 4- to 6-foot vertical scarp and pocket erosions are lined along a span of 475 feet. In some sections, the vertical scarp encroaches into the levee prism. There is a lack of berm along this reach, exposing the levee slope to high flow velocities during normal and flood events.						
08/06/2010: Recommended as local maintenance issue, per CLRO.						
03/09/2010: As discussed with Michael Moncrief of MBK Engineers, the site will be 'addressed' later this year.						
09/29/2009: No major change observed since last visit; pocket erosion and a vertical scarp forming; this site was combined with Site RM30.13 and 30.02 with a combined total erosion length of 475 feet; recommended as annual assessment and monitoring of the site, per CLRO CES Evaluation 2008 Report; previously rated "M".						
11/05/2008: Top of vertical scarp has rip rap that appears to be sliding; rodent holes; existing toe rip rap. [2017 Site ID:RD2062U03RM30.19]						

Photo 4 of 4 : SP_2019_RD2062_311_4_20190313_00015.jpg



Front view of the site. The erosion has developed along the levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	05/21/2019 05/21/2019	Alberto De Leon

LM Start	0.35	Rating **	M	Issue No.	5
LM End	0.35	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.811101 °	37.811101 °
				-121.384402 °	-121.384402 °
DWR ID	RD2062U03RM30.27				
Comment Code					
Inspector Comment					
09/13/2017: No significant change observed.					
07/25/2016: No significant change observed.					
06/25/2015: No significant change observed.					
07/02/2014: No significant change observed.					
08/13/2013: No significant change observed.					
08/07/2012: The site has been visited by boat survey. No significant change observed					
08/23/2011: The site is right at the downstream of a river bend. [2017 Site ID:RD2062U03RM30.27]					

LM Start	0.35	Rating **	M	Issue No.	5 (cont)
LM End	0.35	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : SP_2019_RD2062_311_5_20190313_00016.jpg



Front view of the erosion.

Photo 2 of 3 : SP_2019_RD2062_311_5_20190313_00017.jpg



Close view of the site. Note the dense vegetation at the site.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	05/21/2019 05/21/2019	Alberto De Leon

LM Start	0.35	Rating **	M	Issue No.	5 (cont)	
LM End	0.35	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR Erosion Survey			37.811101 °		37.811101 °
				-121.384402 °		-121.384402 °
DWR ID	RD2062U03RM30.27					
Comment Code						
Inspector Comment						
09/13/2017: No significant change observed.						
07/25/2016: No significant change observed.						
06/25/2015: No significant change observed.						
07/02/2014: No significant change observed.						
08/13/2013: No significant change observed.						
08/07/2012: The site has been visited by boat survey. No significant change observed						
08/23/2011: The site is right at the downstream of a river bend. [2017 Site ID:RD2062U03RM30.27]						

Photo 3 of 3 : SP_2019_RD2062_311_5_20190313_00018.jpg



Front view of the erosion.

LM Start	0.51	Rating **	M	Issue No.	38	
LM End	0.51	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			37.812552 °		37.812552 °
				-121.382781 °		-121.382781 °
DWR ID	DWR_RD2062_03_s_2016_38					
Comment Code						
E2 : Schedule repair of erosion site prior to the next inspection.						
Inspector Comment						

Photo 1 of 1 : SP_2019_RD2062_311_38_20190313_00041.jpg



View of the landside levee slope erosion around the pipe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	05/21/2019 05/21/2019	Alberto De Leon

LM Start	0.55	Rating **	M	Issue No.	7
LM End	0.56	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.813070 °	37.813070 °
				-121.383100 °	-121.383100 °
DWR ID	RD2062U03RM30.43				

Comment Code

Inspector Comment

09/13/2017: No significant change observed.
 07/25/2016: No significant change observed.
 06/25/2015: No significant change observed.
 07/02/2014: No significant change observed.
 08/13/2013: No significant change observed.
 08/07/2012: The site has been visited by boat survey. No significant change observed.
 08/23/2011: No significant change observed on site.
 09/07/2010: No significant change observed on site. Much of the placed rip rap revetment has slid. It is no longer adequately protecting the slope.
 08/06/2010: Recommended as local maintenance issue, per CLRO Report.
 03/09/2010: As discussed with Michael Moncrief of MBK, site will be 'addressed' this year.
 09/29/2009: No major change observed since last visit; a section of the rip rap has slipped, exposing a levee section that has eroded; recommended as local maintenance issue, per CLRO CES Evaluation 2008 Report; Site # is the same as RM30.43, LM0.63; previously rated "U".
 11/05/2008: Site is located inside of a bend; scarp looks to be into the levee prism; piles of concrete chunks placed on the slope, with some of them already starting to slide. [2017 Site ID:RD2062U03RM30.43]

LM Start	0.55	Rating **	M	Issue No.	7 (cont)
LM End	0.56	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : SP_2019_RD2062_311_7_20190313_00019.jpg



Close view of the site.

Photo 2 of 3 : SP_2019_RD2062_311_7_20190313_00020.jpg



Front view of the site.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	05/21/2019 05/21/2019	Alberto De Leon

LM Start	0.55	Rating **	M	Issue No.	7 (cont)	
LM End	0.56	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR Erosion Survey			37.813070 °	37.813070 °	
				-121.383100 °	-121.383100 °	
DWR ID	RD2062U03RM30.43					
Comment Code						
Inspector Comment						
09/13/2017: No significant change observed.						
07/25/2016: No significant change observed.						
06/25/2015: No significant change observed.						
07/02/2014: No significant change observed.						
08/13/2013: No significant change observed.						
08/07/2012: The site has been visited by boat survey. No significant change observed.						
08/23/2011: No significant change observed on site.						
09/07/2010: No significant change observed on site. Much of the placed rip rap revetment has slid. It is no longer adequately protecting the slope.						
08/06/2010: Recommended as local maintenance issue, per CLRO Report.						
03/09/2010: As discussed with Michael Moncrief of MBK, site will be 'addressed' this year.						
09/29/2009: No major change observed since last visit; a section of the rip rap has slipped, exposing a levee section that has eroded; recommended as local maintenance issue, per CLRO CES Evaluation 2008 Report; Site # is the same as RM30.43, LM0.63; previously rated "U".						
11/05/2008: Site is located inside of a bend; scarp looks to be into the levee prism; piles of concrete chunks placed on the slope, with some of them already starting to slide. [2017 Site ID:RD2062U03RM30.43]						

Photo 3 of 3 : SP_2019_RD2062_311_7_20190313_00021.jpg



Front view of the site.

LM Start	1.14	Rating **	U	Issue No.	22
LM End	1.36	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.819166 °	37.821072 °
				-121.379366 °	-121.377031 °
DWR ID	DWR_RD2062_03_s_2018_22				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 3 : SP_2019_RD2062_311_22_20190313_00035.jpg



Looking southwest at dense vegetation (Tobacco plants) on waterward slope. (Spring 2018)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	05/21/2019 05/21/2019	Alberto De Leon

LM Start	1.14	Rating **	U	Issue No.	22 (cont)	
LM End	1.36	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			37.819166 °	37.821072 °	
				-121.379366 °	-121.377031 °	
DWR ID	DWR_RD2062_03_s_2018_22					
Comment Code						
V2 : Remove the wild growth other than native grasses from the levee slopes.						
Inspector Comment						

Photo 2 of 3 : SP_2019_RD2062_311_22_20190313_00036.jpg



Looking west at dense veg. on waterward slope. (Fall 2018)

LM Start	1.14	Rating **	U	Issue No.	22 (cont)
LM End	1.36	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : SP_2019_RD2062_311_22_20190313_00037.jpg



Looking southwest at dense veg (Tabacco plant) on waterward slope. (Fall 2018)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	05/21/2019 05/21/2019	Alberto De Leon

LM Start	1.18	Rating **	M	Issue No.	8
LM End	1.19	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.819290 °	37.819290 °
				-121.378880 °	-121.378880 °
DWR ID	RD2062U03RM31.12				

Comment Code

Inspector Comment

09/13/2017: No significant change observed.
 07/25/2016: No significant change observed.
 06/25/2015: No significant change observed.
 07/02/2014: No significant change observed.
 08/13/2013: No significant change observed.
 08/07/2012: The site has been visited by boat survey. No significant change observed
 08/23/2011: No significant change observed on site.
 09/07/2010: No significant change observed on site. Much of the seasonal grass along the slope was cleared. Site consists of an existing scalloped erosion approximately 30 feet long by 5 feet wide at its widest opening. The lateral crack is extended outwards along the middle slope. There is a 1 to 2 feet of differential settlement that could further develop into a shallow slide.
 08/06/2010: Recommended as local maintenance issue, per CLRO.
 03/09/2010: As discussed with Michael Moncrief of MBK Engineer, site will be 'addressed' this year.
 09/28/2009: No major change observed; section of rip rap has slipped, creating a terraced effect; dense vegetation growth; recommended as a local maintenance issue, per CLRO CES Evaluation 2008 Report; Site # is the same as RM31.12,LM1.25; previously rated "U".
 09/14/2006: 1-2' into prism. [2017 Site ID:RD2062U03RM31.12]

LM Start	1.18	Rating **	M	Issue No.	8 (cont)
LM End	1.19	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : SP_2019_RD2062_311_8_20190313_00022.jpg



Front view of the site.

Photo 2 of 3 : SP_2019_RD2062_311_8_20190313_00023.jpg



Front view of the site.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	05/21/2019 05/21/2019	Alberto De Leon

LM Start	1.18	Rating **	M	Issue No.	8 (cont)	
LM End	1.19	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR Erosion Survey			37.819290 °	37.819290 °	
				-121.378880 °	-121.378880 °	
DWR ID	RD2062U03RM31.12					
Comment Code						
Inspector Comment						
09/13/2017: No significant change observed.						
07/25/2016: No significant change observed.						
06/25/2015: No significant change observed.						
07/02/2014: No significant change observed.						
08/13/2013: No significant change observed.						
08/07/2012: The site has been visited by boat survey. No significant change observed						
08/23/2011: No significant change observed on site.						
09/07/2010: No significant change observed on site. Much of the seasonal grass along the slope was cleared. Site consists of an existing scalloped erosion approximately 30 feet long by 5 feet wide at its widest opening. The lateral crack is extended outwards along the middle slope. There is a 1 to 2 feet of differential settlement that could further develop into a shallow slide.						
08/06/2010: Recommended as local maintenance issue, per CLRO.						
03/09/2010: As discussed with Michael Moncrief of MBK Engineer, site will be 'addressed' this year.						
09/28/2009: No major change observed; section of rip rap has slipped, creating a terraced effect; dense vegetation growth; recommended as a local maintenance issue, per CLRO CES Evaluation 2008 Report; Site # is the same as RM31.12,LM1.25; previously rated "U".						
09/14/2006: 1-2' into prism. [2017 Site ID:RD2062U03RM31.12]						

Photo 3 of 3 : SP_2019_RD2062_311_8_20190313_00024.jpg



Front view of the site.

LM Start	1.36	Rating **	M	Issue No.	15
LM End	5.53	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.821032 °	37.807536 °
				-121.377046 °	-121.328314 °
DWR ID	DWR_RD2062_03_s_2019_15				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Annual vegetation is scheduled to be mowed in June 2019.					

Photo 1 of 1 : SP_2019_RD2062_311_15_20190521_00058.jpg



Typical view of vegetation on waterside slope. (Spring 2019)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	05/21/2019 05/21/2019	Alberto De Leon

LM Start	1.39	Rating **	U	Issue No.	9
LM End	1.40	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.821380 °	37.821380 °
				-121.376900 °	-121.376900 °
DWR ID	RD2062U03RM31.28				

Comment Code

Inspector Comment

09/13/2017: No significant change observed.
 07/25/2016: No significant change observed.
 06/25/2015: No significant change observed.
 07/02/2014: No significant change observed.
 08/13/2013: No significant change observed.
 08/07/2012: The site has been visited by boat survey. No significant change observed.
 08/23/2011: No significant change observed on site.
 09/07/2010: No significant change observed on site. There is a small- to medium sized Oak tree on the mid-slope just above rip rap. Some of the rip rap has collapsed, creating a pocket erosion just above the existing toe rip rap and upstream of the Oak tree.
 08/06/2010: Recommended as local maintenance issue, per CLRO.
 03/09/2010: As discussed with Michael Moncrief of MBK Engineer, site will be 'addressed' in 2010.
 09/29/2009: No major change since last visit; sliding of the rip rap at the base of the lone tree; there is noticeable man-made trail and foot traffic extending from the crown to the toe; much of the broken concrete used as temporary rip rap has slid, exposing portion of the bare levee slope; recommended as local maintenance issue, per CLRO CES Evaluation 2008 Report; Site # is the same as RM31.3, LM1.45; previously rated "M".
 11/05/2008: Portion of rip rap collapsing.
 09/14/2006: Portion of rip rap along the slope has collapsed; exposed levee section is starting to erode, exposing roots from the nearby tree.
 [2017 Site ID:RD2062U03RM31.28]

LM Start	1.39	Rating **	U	Issue No.	9 (cont)
LM End	1.40	Issue Type +	Ma	Location *	WS

Photo 1 of 4 : SP_2019_RD2062_311_9_20190313_00025.jpg



Front view of the erosion site.

Photo 2 of 4 : SP_2019_RD2062_311_9_20190313_00026.jpg



Close view of the site.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	05/21/2019 05/21/2019	Alberto De Leon

LM Start	1.39	Rating **	U	Issue No.	9 (cont)
LM End	1.40	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.821380 °	37.821380 °
				-121.376900 °	-121.376900 °
DWR ID	RD2062U03RM31.28				

Comment Code

Inspector Comment

09/13/2017: No significant change observed.
 07/25/2016: No significant change observed.
 06/25/2015: No significant change observed.
 07/02/2014: No significant change observed.
 08/13/2013: No significant change observed.
 08/07/2012: The site has been visited by boat survey. No significant change observed.
 08/23/2011: No significant change observed on site.
 09/07/2010: No significant change observed on site. There is a small- to medium sized Oak tree on the mid-slope just above rip rap. Some of the rip rap has collapsed, creating a pocket erosion just above the existing toe rip rap and upstream of the Oak tree.
 08/06/2010: Recommended as local maintenance issue, per CLRO.
 03/09/2010: As discussed with Michael Moncrief of MBK Engineer, site will be 'addressed' in 2010.
 09/29/2009: No major change since last visit; sliding of the rip rap at the base of the lone tree; there is noticeable man-made trail and foot traffic extending from the crown to the toe; much of the broken concrete used as temporary rip rap has slid, exposing portion of the bare levee slope; recommended as local maintenance issue, per CLRO CES Evaluation 2008 Report; Site # is the same as RM31.3, LM1.45; previously rated "M".
 11/05/2008: Portion of rip rap collapsing.
 09/14/2006: Portion of rip rap along the slope has collapsed; exposed levee section is starting to erode, exposing roots from the nearby tree.
 [2017 Site ID:RD2062U03RM31.28]

LM Start	1.39	Rating **	U	Issue No.	9 (cont)
LM End	1.40	Issue Type +	Ma	Location *	WS

Photo 3 of 4 : SP_2019_RD2062_311_9_20190313_00027.jpg



Front view of the site. Note the existing broken concrete on levee slope and at the levee toe.

Photo 4 of 4 : SP_2019_RD2062_311_9_20190313_00028.jpg



Close view of the site.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	05/21/2019 05/21/2019	Alberto De Leon

LM Start	2.18	Rating **	C	Issue No.	20
LM End	2.18	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.818725 °	37.818725 °
				-121.363762 °	-121.363762 °
DWR ID	DWR_RD2062_03_s _ 2018_20				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Slope damage caused by foot traffic on waterward slope.					

No Photos

LM Start	2.18	Rating **	M	Issue No.	25
LM End	2.18	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.818748 °	37.818748 °
				-121.363716 °	-121.363716 °
DWR ID	DWR_RD2062_03_s _ 2019_25				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	2.85	Rating **	A/W	Issue No.	21
LM End	4.37	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.816313 °	37.818882 °
				-121.352848 °	-121.334412 °
DWR ID	DWR_RD2062_03_s _ 2018_21				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	05/21/2019 05/21/2019	Alberto De Leon

LM Start	3.61	Rating **	M	Issue No.	31
LM End	3.66	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.816982 °	37.816541 °
				-121.342939 °	-121.342191 °
DWR ID	DWR_RD2062_03_s_2015_31				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
There is about a 3 ft vertical cut at the levee toe into the levee prism.					

Photo 1 of 1 : SP_2019_RD2062_311_31_20190313_00038.jpg



View of the eroded landside levee toe.

LM Start	3.83	Rating **	M	Issue No.	24
LM End	3.83	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.818245 °	37.818245 °
				-121.340564 °	-121.340564 °
DWR ID	DWR_RD2062_03_s_2019_24				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	3.99	Rating **	A/W	Issue No.	10
LM End	4.01	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.820834 °	37.820834 °
				-121.340314 °	-121.340314 °
DWR ID	RD2062U03RM33.92				
Comment Code					
Inspector Comment					
09/13/2017: The erosion site is immediately downstream of a sharp river bend. [2017 Site ID:RD2062U03RM33.92]					

Photo 1 of 3 : SP_2019_RD2062_311_10_20190313_00029.jpg



Front view of the erosion located at the inside of a sharp river bend.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	05/21/2019 05/21/2019	Alberto De Leon

LM Start	3.99	Rating **	A/W	Issue No.	10 (cont)	
LM End	4.01	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR Erosion Survey			37.820834 °		37.820834 °
				-121.340314 °		-121.340314 °
DWR ID	RD2062U03RM33.92					
Comment Code						
Inspector Comment						
09/13/2017: The erosion site is immediately downstream of a sharp river bend. [2017 Site ID:RD2062U03RM33.92]						

Photo 2 of 3 : SP_2019_RD2062_311_10_20190313_00030.jpg



Close view of the erosion.

LM Start	3.99	Rating **	A/W	Issue No.	10 (cont)
LM End	4.01	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : SP_2019_RD2062_311_10_20190313_00031.jpg



Close view of the erosion. Note the sandy material of the river bank at the erosion site.

LM Start	4.30	Rating **	C	Issue No.	37
LM End	4.35	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.819436 °	37.819096 °
				-121.335469 °	-121.334829 °
DWR ID	DWR_RD2062_03_f_2016_37				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Toe road has been repaired.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	05/21/2019 05/21/2019	Alberto De Leon

LM Start	4.83	Rating **	M	Issue No.	35
LM End	4.91	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.812849 °	37.811682 °
				-121.336116 °	-121.336271 °
DWR ID	DWR_RD2062_03_f_2014_35				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
There is a 2 to 3 feet vertical cut that possibly is caused by previous floods.					

Photo 1 of 1 : SP_2019_RD2062_311_35_20190313_00039.jpg



View of a 2-3 feet vertical cut at the landside levee toe.

LM Start	5.16	Rating **	C	Issue No.	17
LM End	5.16	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Repair Gates			37.808432 °	37.808432 °
				-121.334767 °	-121.334767 °
DWR ID	DWR_RD2062_03_s_2018_17				
Comment Code					
Inspector Comment					
Lock system (mechanism) has been repaired.					

No Photos

LM Start	5.16	Rating **	C	Issue No.	19
LM End	5.16	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.808432 °	37.808432 °
				-121.334767 °	-121.334767 °
DWR ID	DWR_RD2062_03_s_2018_19				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
There was slope damage due to gate issues and vehicle traffic.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	05/21/2019 05/21/2019	Alberto De Leon

LM Start	5.18	Rating **	M	Issue No.	18
LM End	5.18	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.808167 °	37.808167 °
				-121.334530 °	-121.334530 °
DWR ID	DWR_RD2062_03_s_2019_18				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

LM Start	5.28	Rating **	M	Issue No.	16
LM End	5.28	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.807519 °	37.807519 °
				-121.332921 °	-121.332921 °
DWR ID	DWR_RD2062_03_s_2019_16				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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